

WHAT IS CLAIMED IS:

- 1 1. A folding tool, comprising:
2 a handle;
3 an implement pivotally coupled to the handle, the implement
4 adapted to travel between a closed position and an open position and
5 having a tang with a contoured surface; and
6 a spring arm having a first end coupled to the handle and a
7 second end adapted to interact with the implement;
8 wherein the spring arm both exerts an opening force on the
9 implement during at least a portion of the travel of the implement
10 between the closed position and the open position and locks the
11 implement into the open position.
- 1 2. The folding knife of claim 1, wherein the spring arm exerts
2 the opening force on the implement via contact between the second end
3 and the contoured surface.
- 1 3. The folding knife of claim 1, wherein the spring arm locks
2 the implement into the open position via engagement with a portion of the
3 contoured surface.
- 1 4. The folding knife of claim 3, wherein the spring arm must be
2 manually disengaged from the portion of the contoured surface prior to
3 rotation of the implement into the closed position.
- 1 5. The folding knife of claim 4, further comprising an unlocking
2 mechanism configured to disengage the spring arm from the contoured
3 surface.
- 1 6. The folding knife of claim 5, wherein the unlocking
2 mechanism is an unlocking latch.

1 7. The folding knife of claim 1, further comprising a leaf spring
2 coupled to the handle, the leaf spring adapted to bias the spring arm into
3 a position locking the implement into the open position.

1 8. The folding knife of claim 1, wherein the spring arm exerts a
2 closing force on the implement when the implement is in the closed
3 position and the opening force on the implement when the implement is
4 rotated several degrees away from the closed position.

1 9. The folding knife of claim 8, wherein the spring arm exerts
2 the opening force on the implement when the implement is in the open
3 position.

1 10. The folding knife of claim 9, wherein the implement is a
2 blade.

1 11. The folding knife of claim 1, wherein the spring arm is in a
2 plane defined by the implement.

1 12. The folding knife of claim 1, wherein the implement is a knife
2 blade.

1 13. A folding knife, comprising:
2 a handle;
3 a blade pivotally coupled to the handle, the blade having a
4 closed position and an open position and having a tang with a contoured
5 surface; and
6 a spring located in a plane defined by the blade, the spring
7 having a proximal end coupled to the handle and a distal end adapted to
8 exert a force on the blade via contact with the contoured surface.

1 14. The folding knife of claim 13, wherein the spring locks the
2 blade in the open position.

1 15. The folding knife of claim 14, further comprising an
2 unlocking mechanism configured to release the blade from the open
3 position.

1 16. The folding knife of claim 15, wherein the unlocking
2 mechanism is an unlocking latch.

1 17. The folding knife of claim 13, wherein the spring exerts a
2 closing force on the blade when the blade is in a first position and the
3 spring exerts an opening force on the blade when the blade is in a second
4 position.

1 18. The folding knife of claim 17, wherein the first position is
2 any position in the range between the closed position and ten degrees of
3 rotation away from the closed position.

1 19. The folding knife of claim 18, wherein the second position is
2 any position in the range between the open position and ten degrees of
3 rotation away from the closed position.

1 20. The folding knife of claim 13, wherein the spring comprises a
2 pair of spring arms, each approximately half the width of the blade.